



STIC Search Report

Biotech-Chem Library

File Copy
10/042059
updated

STIC Database Tracking Number: 168350

TO: David Lamberston
Art Unit: 1636
Location: rem/2B79/2C70
Serial Number: 10/042059

Thursday, October 27, 2005

From: Beverly Shears
Location: Biotech-Chem Library
REM 1A54
Phone: 571-272-2528
beverly.shears@uspto.gov

Search Notes

Protein Sequence Searches – February 2005

All of the sequence databases on ABSS have recently been updated.

- Please note that the curators of the UniProt database have purged some temporary accession numbers from the most recent version of UniProt. These sequences have been assigned new permanent accession numbers. The new UniProt record may not contain the previous temporary accession number.
- If you encounter an accession number from an older search run against UniProt (results file extension **.rup**) that can no longer be found in the database, the permanent record with the new accession number can be found by searching the old accession number in the UniProt Protein Archive database (uniPARC) at:

<http://www.pir.uniprot.org/database/archive.shtml>

If you have any questions regarding this information or your results, please contact any STIC searcher.



STIC-Biotech/ChemLib

CRFE

168850

From: Lambertson, David
Sent: Tuesday, October 18, 2005 11:06 AM
To: STIC-Biotech/ChemLib
Cc: Lambertson, David
Subject: Search Request

Search Request

Examiner's Name:	David Lambertson
Examiner #:	79514
Art Unit:	1636
Room #:	Remsen 02B79
Mailbox room#:	Remsen 02C70
Phone:	(571) 272-0771
Results Format:	paper

Serial # 10/042059

Please Search:

Nucleic Acid databases for:

SEQ ID NO: 1 *na 843*

Including:

1. Default Search. *mej*
2. Interference Search.

Thanks,
Dave.

10/25/05
ISH.

10/18/2005

GenCore version 5.1.6
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OM nucleic - nucleic search, using SW model

Run on: October 20, 2005, 15:44:38 ; Search time 900 Seconds

(without alignments)
7726.691 Million cell updates/sec

Title: US-10-042-059b-1

Perfect score: 843
Sequence: 1 atgaccttatgaagccaga.....ctccctcgtgctgactag 843

Scoring table: IDENTITY NUC
Gapop 10.0, Gapext 1.0

Searched: 9772231 seqs, 4124568258 residues

Total number of hits satisfying chosen parameters: 1954462

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database:

Published Applications NA:*

- 1: /cgn2_6/ptodata/1/pubpna/US07_PUBCOMB.seq:*
- 2: /cgn2_6/ptodata/1/pubpna/PCF_NEW_PUB.seq:*
- 3: /cgn2_6/ptodata/1/pubpna/US06_NEW_PUB.seq:*
- 4: /cgn2_6/ptodata/1/pubpna/US06_PUBCOMB.seq:*
- 5: /cgn2_6/ptodata/1/pubpna/US07_NEW_PUB.seq:*
- 6: /cgn2_6/ptodata/1/pubpna/PCFUS_PUBCOMB.seq:*
- 7: /cgn2_6/ptodata/1/pubpna/US08_NEW_PUB.seq:*
- 8: /cgn2_6/ptodata/1/pubpna/US08_PUBCOMB.seq:*
- 9: /cgn2_6/ptodata/1/pubpna/US09A_PUBCOMB.seq:*
- 10: /cgn2_6/ptodata/1/pubpna/US09B_PUBCOMB.seq:*
- 11: /cgn2_6/ptodata/1/pubpna/US09C_PUBCOMB.seq:*
- 12: /cgn2_6/ptodata/1/pubpna/US09_NEW_PUB.seq:*
- 13: /cgn2_6/ptodata/1/pubpna/US10A_PUBCOMB.seq:*
- 14: /cgn2_6/ptodata/1/pubpna/US10B_PUBCOMB.seq:*
- 15: /cgn2_6/ptodata/1/pubpna/US10C_PUBCOMB.seq:*
- 16: /cgn2_6/ptodata/1/pubpna/US10D_PUBCOMB.seq:*
- 17: /cgn2_6/ptodata/1/pubpna/US10F_PUBCOMB.seq:*
- 18: /cgn2_6/ptodata/1/pubpna/US10F_PUBCOMB.seq:*
- 19: /cgn2_6/ptodata/1/pubpna/US10G_PUBCOMB.seq:*
- 20: /cgn2_6/ptodata/1/pubpna/US10H_PUBCOMB.seq:*
- 21: /cgn2_6/ptodata/1/pubpna/US10I_PUBCOMB.seq:*
- 22: /cgn2_6/ptodata/1/pubpna/US10I_PUBCOMB.seq:*
- 23: /cgn2_6/ptodata/1/pubpna/US11A_PUBCOMB.seq:*
- 24: /cgn2_6/ptodata/1/pubpna/US11_NEW_PUB.seq:*
- 25: /cgn2_6/ptodata/1/pubpna/US60_NEW_PUB.seq:*
- 26: /cgn2_6/ptodata/1/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	DB ID	Description
1	843	100.0	843	US-10-042-059A-1
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4	156.4	16.6	869	US-10-472-587-26
5	141.2	16.7	2920	US-10-128-714-249
6	141.2	16.7	2967	US-10-128-714-5249
7	131.4	15.6	1016	US-10-437-963-93956

8	131.4	15.6	1231	9	US-09-454-279-13	Sequence 13, Appl
9	131.4	15.6	1231	17	US-10-624-061-13	Sequence 13, Appl
10	118.2	14.0	1423	18	US-10-424-599-123820	Sequence 123820,
11	116.8	13.9	658	20	US-10-653-047-6992	Sequence 6992, Ap
12	116.6	13.8	1146	20	US-10-425-114-7285	Sequence 7285, Ap
13	116	13.8	1376	20	US-10-425-115-102347	Sequence 102347,
14	112.2	13.3	1548	20	US-10-739-930-4455	Sequence 4455, Ap
15	111.2	13.2	1223	9	US-09-454-279-11	Sequence 11, Appl
16	111.2	13.2	1223	17	US-10-624-061-14553	Sequence 11453, A
17	111.2	13.2	1500	20	US-10-425-115-102351	Sequence 102351,
18	110.6	13.1	1010	20	US-10-425-115-102346	Sequence 102346,
19	109.6	13.0	1397	20	US-10-425-115-102346	Sequence 4, Appl
20	104.4	12.4	1217	14	US-10-267-763-4	Sequence 102349,
21	104.4	12.4	1217	14	US-10-267-763-10	Sequence 102349,
22	103.2	12.2	1368	20	US-10-425-115-102349	Sequence 15, Appl
23	99.8	11.8	1020	9	US-09-454-279-15	Sequence 15, Appl
24	99.8	11.8	1020	17	US-10-624-061-15	Sequence 7639, Ap
25	99.8	11.8	1079	18	US-10-425-114-7639	Sequence 972, App
26	97.4	11.6	798	9	US-09-938-842A-972	Sequence 972, App
27	97.4	11.6	798	11	US-09-938-842A-972	Sequence 3, Appl
28	97.4	11.6	1006	14	US-10-267-763-3	Sequence 9, Appl
29	97.4	11.6	1006	14	US-10-267-763-9	Sequence 4454, Ap
30	97.4	11.6	1430	20	US-10-739-930-4454	Sequence 737, App
31	93.6	11.1	1005	9	US-09-938-842A-737	Sequence 737, App
32	93.6	11.1	1005	11	US-09-938-842A-737	Sequence 2, Appl
33	93.6	11.1	1207	14	US-10-267-763-8	Sequence 62, App
34	93.6	11.1	1207	14	US-10-267-763-8	Sequence 3036, A
35	93.6	11.1	1299	20	US-10-739-930-621	Sequence 3898, Ap
36	87.6	10.4	1653	18	US-10-424-599-93036	Sequence 151470,
37	81	9.6	880	18	US-10-425-114-3898	Sequence 27576, A
38	80	9.5	1314	20	US-10-425-115-151470	Sequence 49372, A
39	78.4	9.3	1197	18	US-10-425-114-72576	Sequence 83557, A
40	77.2	9.2	524	20	US-10-425-115-102342	Sequence 1332, Ap
41	76.2	9.0	768	19	US-10-437-963-83557	Sequence 115559,
42	74.8	8.9	2154	19	US-10-437-963-83557	Sequence 12291, A
43	74.2	8.8	1066	18	US-10-425-114-1332	
44	74.2	8.8	1083	20	US-10-425-115-115559	
45	73	8.7	580	19	US-10-021-323-12291	

ALIGNMENTS

RESULT 1
US-10-042-059A-1
; Sequence 1, Application US/10042059A
; Publication No. US20020197704A1
; GENERAL INFORMATION:
; APPLICANT: Rhein Biotech Gesellschaft fur neue biotechnologische Prozesse und
; APPLICANT: Prokute mbH
; TITLE OF INVENTION: Nucleic Acid Molecule Containing a Nucleic Acid Coding for a Pol.
; FILE REFERENCE: PA1058US-019
; CURRENT APPLICATION NUMBER: US/10/042, 059A
; CURRENT FILING DATE: 2001-10-25
; PRIOR APPLICATION NUMBER: DE 199 19 124.7
; PRIOR FILING DATE: 1999-04-27
; NUMBER OF SEQ ID NOS: 3
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 843
; TYPE: DNA
; ORGANISM: Hansenula polymorpha
US-10-042-059A-1

Query Match 100.0%; Score 843; DB 13; Length 843;
Best Local Similarity 100.0%; Pred. No. 8.7e-267;
Matches 843; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 ATGACCTTATGAGCAGCAAAACAGTGTGACCTTGCGAATCTTGAAGATGCTTGCTG 60
DB 1 ATGACCTTATGAGCAGCAAAACAGTGTGACCTTGCGAATCTTGAAGATGCTTGCTG 60

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OM nucleic - nucleic search, using sw model

Run on: October 20, 2005, 14:09:57 ; Search time 591 Seconds
(without alignments)
8443.895 Million cell updates/sec

Title: US-10-042-059b-1

Perfect score: 843
Sequence: 1 atggacttatgaagccaga.....tctcctcgtgcttgaactag 843

Scoring table: IDENTIFY NUC
Gapop 10.0, Gapext 1.0

Searched: 4390206 seqs, 295970667 residues

Total number of hits satisfying chosen parameters: 8780412

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :
1: N_Geneseq_16Dec04:*
2: geneeqn1980s:*
3: geneeqn1990s:*
4: geneeqn2000s:*
5: geneeqn2001as:*
6: geneeqn2002as:*
7: geneeqn2003as:*
8: geneeqn2003bs:*
9: geneeqn2003cs:*
10: geneeqn2003ds:*
11: geneeqn2004as:*
12: geneeqn2004bs:*
13: geneeqn2004cs:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	843	100.0	843	3	AAC81949
2	843	100.0	1655	3	AAC81950
3	270	32.0	807	12	ADP98547
4	182.8	21.7	801	13	ADR85510
5	156.4	18.6	869	8	AAL50202
6	141.2	16.7	989	13	ADR84823
7	141.2	16.7	2920	8	ABT17891
8	141.2	16.7	6989	13	ADR84336
9	141.2	16.7	6989	13	ADR84336
10	131.4	15.6	1231	10	ABX93057
11	131.4	15.6	1231	12	ADJ55263
12	116.8	13.9	658	3	AAR14469
13	111.2	13.2	1223	10	ABX93056
14	111.2	13.2	1223	12	ADJ55261
15	104.4	12.4	1217	6	ABA91395
16	104.4	12.4	1217	6	ABA91401
17	99.8	11.8	1020	10	ABX93058
18	99.8	11.8	1020	12	ADJ55265
19	97.4	11.6	798	6	ABZ13167
20	97.4	11.6	993	6	ABA99614

21	97.4	11.6	1006	6	ABA99613	ABA99613 A. thalia
22	97.4	11.6	1006	6	ABA91400	ABA91400 Arabidops
23	97.4	11.6	1006	6	ABA91394	ABA91394 Arabidops
24	93.6	11.1	1005	6	ABZ12932	ABZ12932 Arabidops
25	93.6	11.1	1207	6	ABA91393	ABA91393 Arabidops
26	93.6	11.1	1207	6	ABA91399	ABA91399 Arabidops
27	93.6	11.1	1274	3	AAC33324	AAC33324 Arabidops
28	73	8.7	580	13	ACN57510	ACN57510 Cotton gy
29	69.8	8.3	622	13	ACN50132	ACN50132 Cotton no
30	64.2	7.6	600	13	ADR64815	ADR64815 Cotton CD
31	61.8	7.3	258	6	ABT171526	ABT171526 Corn taas
32	61	7.2	780	12	ABX93059	ABX93059 Wheat cho
33	61	7.2	780	12	ADJ55267	ADJ55267 Wheat cho
34	59.8	7.1	579	10	ABX93054	ABX93054 Wheat cho
35	59.8	7.1	579	12	ADJ55257	ADJ55257 Wheat cho
36	56.2	6.7	584	13	ACN50205	ACN50205 Cotton no
37	54.8	6.5	542	13	ACN57601	ACN57601 Cotton gy
38	53.4	6.3	525	10	ABX93053	ABX93053 Soybean c
39	53.4	6.3	525	12	ADJ55255	ADJ55255 Soybean c
40	52.6	6.2	524	13	ADR64235	ADR64235 Cotton CD
41	49.4	5.9	2000	8	ADR71938	ADR71938 Rice gene
42	48.8	5.8	864	12	ADJ44958	ADJ44958 Plant CDN
43	47.6	5.6	1379	6	ABA91794	ABA91794 Yeast mlt
44	47	5.6	5858	8	ADJ55726	ADJ55726 Nephtila m
45	46.8	5.6	180385	10	ADL13931	ADL13931 Osteoarth

ALIGNMENTS

RESULT 1
ID AAC81949 standard; DNA; 843 BP.
XX
AC AAC81949;
AC
DT 15-SEP-2003 (revised)
DT 01-MAR-2001 (first entry)
XX
XX H. polymorpha chorismate mutase DNA.
DE
XX Chorismate mutase; prephenate; selection marker; auxotrophic yeast; ds.
XX Pichia angusta.
OS
XX WO200065071-A1.
PN
XX 02-NOV-2000.
PD
XX 27-APR-2000; 2000WO-EP003844.
PF
XX 27-APR-1999; 99DE-01019124.
PR
XX (RHEI-) RHEIN BIOTECH GBS NEUE BIOTECHNOLOGISCHE.
PA
XX Gellissen G, Braus G, Pries R, Krappmann S, Strasser AW;
PI
XX MPI; 2000-687355/67.
PT P-PSDB; AAB11451.
PT Nucleic acids encoding chorismate mutase, useful for preparing an
PT auxotrophic selection system for recombinant yeast and for recombinant
PT protein expression.
XX
XX Claim 1a; Page 57; 63pp; German.
XX This invention describes novel nucleic acids (I) that encode a
XX polypeptide (II) with chorismate mutase (CM) activity (or its
XX complementary strand). CM catalyzes conversion of chorismate to
XX prephenate, an essential precursor for Phe and Tyr. (I) is a selection
XX marker for construction of corresponding auxotrophic yeast (requiring Phe
XX and Tyr) that are used for recombinant production of proteins. (I) allows
XX selection of transformed yeast on simple media. (Updated on 15-SEP-2003

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OM nucleic - nucleic search, using sw model

Run on: October 20, 2005, 14:12:47 : Search time 4117 seconds
(without alignments)
9921.726 Million cell updates/sec

Title: US-10-042-059B-1

Sequence: 1 atgagctttagaagcagca.....tctctctgcgtctgctag 843

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 4708233 seqs, 24227607955 residues

Total number of hits satisfying chosen parameters: 941666

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :

GenBml: *
1: gb_ba: *
2: gb_hcg: *
3: gb_in: *
4: gb_om: *
5: gb_ov: *
6: gb_pat: *
7: gb_ph: *
8: gb_pl: *
9: gb_pr: *
10: gb_ro: *
11: gb_sta: *
12: gb_sy: *
13: gb_un: *
14: gb_vl: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match length	ID	Description
1	843	100.0	843	BD266599 Nucleic a
2	843	100.0	843	BD266599 Nucleic a
3	843	100.0	843	BD266599 Nucleic a
4	843	100.0	843	BD266599 Nucleic a
5	843	100.0	843	BD266599 Nucleic a
6	843	100.0	843	BD266599 Nucleic a
7	843	100.0	843	BD266599 Nucleic a
8	843	100.0	843	BD266599 Nucleic a
9	843	100.0	843	BD266599 Nucleic a
10	843	100.0	843	BD266599 Nucleic a
11	843	100.0	843	BD266599 Nucleic a
12	843	100.0	843	BD266599 Nucleic a
13	843	100.0	843	BD266599 Nucleic a
14	843	100.0	843	BD266599 Nucleic a
15	843	100.0	843	BD266599 Nucleic a
16	843	100.0	843	BD266599 Nucleic a
17	843	100.0	843	BD266599 Nucleic a
18	843	100.0	843	BD266599 Nucleic a
19	843	100.0	843	BD266599 Nucleic a

20	131.4	15.6	1250	8	AK068983	Oryza sat
21	113.6	13.5	3167	8	AF133241	Emeritcell
22	111.2	12.23	1223	8	AR404686	Sequence
23	110	13.0	1000	8	L47356	Lycoopersico
24	107.6	12.8	951	8	BT005306	Arabidops
25	107.6	12.8	1143	8	AK117860	Arabidops
26	104.4	12.4	1217	6	AR236635	Sequence
27	104.4	12.4	1217	6	AR236641	Sequence
28	104.4	12.4	1217	6	AR236641	Sequence
29	104.4	12.4	1217	6	AR236641	Sequence
30	104.4	12.4	1217	6	AR236641	Sequence
31	100.6	11.9	110000	2	AP006499_05	Continuation (6 of
32	99.8	11.8	1020	6	AR404688	Sequence
33	97.4	11.6	798	6	AX506277	Sequence
34	97.4	11.6	829	8	AX133840	Arabidops
35	97.4	11.6	993	6	AX343935	Sequence
36	97.4	11.6	1006	6	AR236634	Sequence
37	97.4	11.6	1006	6	AR236640	Sequence
38	97.4	11.6	1006	6	AX464575	Sequence
39	97.4	11.6	1006	6	AX464581	Sequence
40	97.4	11.6	1006	6	L47355	Arabidops
41	97.4	11.6	1006	6	AX506238	Sequence
42	97.4	11.6	1005	8	AX506042	Sequence
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44	93.6	11.1	1207	6	AR236633	Sequence
45	93.6	11.1	1207	6	AR236633	Sequence

ALIGNMENTS

RESULT 1
BD266599
LOCUS
DEFINITION
Nucleic acid molecule, containing a nucleic acid which codes for a polypeptide with chorismate mutase activity.

ACCESSION
BD266599.1 GI:33076367
VERSION
JP 2002542788-A/1.
KEYWORDS
JP 2002542788-A/1.
SOURCE
Pichia angusta
ORGANISM
Pichia angusta
Eukaryota; Fungi; Ascomycota; Saccharomycotina; Saccharomycetes;
Saccharomycetales; Saccharomycetaceae; Pichia.

REFERENCE
1 (bases 1 to 843)
Gellissen, G., Braus, G., Pries, R., Krappmann, S. and Strasser, A.W.
Nucleic acid molecule, containing a nucleic acid which codes for a polypeptide with chorismate mutase activity
Patent: JP 2002542788-A 1 17-DEC-2002;
KHEIN BIOTECH GESELLSCHAFT FUER NEUE BIOTECHNOLOGISCHE PROZESSE UND
PRODUKTE MBH

COMMENT
OS Hansenula polymorpha (yeast)
PN JP 2002542788-A/1
PD 17-DEC-2002
PF 27-APR-2000 JP 2000614405
PI 27-APR-1999 DE 199 19 124.7
PR GERD GELLISSEN, GERHARD BRAUS, RALPH PRIES, SVEN KRAPPMANN, PI
ALEXANDER W STRASSER
PC C12N15/09, C07K16/40, C12N1/15, C12N1/19, C12N1/21, C12N5/10 PC
PC C12N9/90, C12N15/00,
PC C12N5/00
CC Nucleic acid molecule, containing a nucleic acid which codes
CC for a
CC polypeptide with chorismate mutase activity
CC Key
FT source
FT 1. 843
FT location/Qualifiers
FT 1. 843
FT /organism="Hansenula polymorpha (yeast)"
FT /db_xref="taxon:4905"

FEATURES
source
location/Qualifiers
1. 843
/organism="Pichia angusta"
/mol_type="genomic DNA"
/db_xref="taxon:4905"

ORIGIN